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| Grade Level 9th Algebra I | | **Teacher/Room**: L. Payne/Room 181 Week of: August 22 – August 26, 2016 | | | |
| **Unit Vocabulary:** see attached | | | | | |
| **Instructional Strategies Used:** direct instruction, independent study, interactive instruction, partners | | | | | |
| **Day 1** | **Day 2** | | **Day 3** | **Day 4** | **Day 5** |
| **Common Core Standard(s)**:  **MGSE9‐12.A.CED.1** Create equations and inequalities in one variable and use them to solve problems. | **Common Core Standard(s)**:  **MGSE9‐12.A.CED.1** Create equations and inequalities in one variable and use them to solve problems. | | **Common Core Standard(s)**:  **MGSE9‐12.A.CED.1** Create equations and inequalities in one variable and use them to solve problems. | **Common Core Standard(s)**:  **MGSE9‐12.A.CED.1** Create equations and inequalities in one variable and use them to solve problems. | **Common Core Standard(s)**:  **MGSE9‐12.A.CED.1** Create equations and inequalities in one variable and use them to solve problems. |
| **EQ Question**: How do you solve two-step equations? | **EQ Question**: How do you solve multi-step equations? | | **EQ Question**: How can you solve equations that have variables on both sides? | **EQ Question**: How do you use distributive property to solve equations? | **EQ Question**: How do you solve multi-step equations? |
| **Mini Lesson:** MatchingExpressions (Partners)  **Activating Strategies:** Right/Wrong:Given a solution, students need to decide if it was solved correctly.  **Lesson:** Solving simple equations   1. Go over last Friday’s WS 2. Steps on solving equations(graphic organizer) 3. Properties of Equality 4. Guided Practice Problems 5. Assignment 6. Friday Worksheet   **Resource/Materials:** Powerpoint, worksheets, graphic org | **Mini Lesson:** USA Test Prep –Computer Lab  **Activating Strategies:** How do you solve this multi-step equation?  **Lesson:** Solving two-step and multi-step equations   1. Steps on solving 2-step equations with Power Pt 2. Guided Practice Problems 3. Assignment 4. Relations   **Resource/Materials:** Powerpoint, worksheets | | **Mini Lesson:** Properties of Equality  **Activating Strategies:** How do you solve this equation with variables on both sides?  **Lesson:** Solving equations with variables on both sides   1. Steps on solving equations 2. Guided Practice Problems 3. Assignment 4. 1.7 Functions 5. Ticket-out-the-door   **Resource/Materials:** Powerpoint, worksheets | **Mini Lesson:** USA Test Prep –Computer Lab  **Activating Strategies:** Person Puzzle - Angélique Kidjo  **Lesson:** Solving Using Distributive Property   1. Notes 2. Guided Practice Problems 3. Assignment 4. **Review** 5. Ticket-out-the-door   **Resource/Materials:** Powerpoint, worksheets | **Mini Lesson:** Solving Equations  **Activating Strategies:** Pair Activity – Solving Equations  **Lesson:** Solving a mixture of equations   1. Collect Friday Worksheet 2. Quiz over Friday WS 3. Steps on solving equations 4. TEST Equations and Chapter 1.   **Resource/Materials:** Powerpoint, worksheets |
| **Differentiation:**  *Content/Process/Product:* graphic organizer  *Grouping Strategy:* heterogeneous  *Assessment:* Friday WS | **Differentiation:**  *Content/Process/Product:* graphic organizer, USATestPrep  *Grouping Strategy:*  *Assessment:* | | **Differentiation:**  *Content/Process/Product:* graphic organizer  *Grouping Strategy:*  *Assessment:* | **Differentiation:**  *Content/Process/Product:* graphic organizer, USA Test Prep  *Grouping Strategy:* heterogeneous  *Assessment:* informal | **Differentiation:**  *Content/Process/Product:* graphic organizer  *Grouping Strategy:* partners  *Assessment:* Friday WS |
| **Assessment :**  *Formative:* thumbs up/down  *Summative:* | **Assessment :**  *Formative:* thumbs up/down  *Summative:* | | **Assessment :**  *Formative:* thumbs up/down  *Summative:* | **Assessment :**  *Formative:* ticket-out-door  *Summative:* | **Assessment :**  *Formative:* thumbs up/down, quiz  *Summative:* |
| **Homework:** 1.3, properties of numbers, P&PS,  1.4, Distributive Property, P&PS,  Solving equations – 1&2 step equations | **Homework:** 1.5 Equations  1.6 Relations  2—step equations | | **Homework:** Solving Equations w/ variables on both sides  1.7 Functions  1.8 Interpret graphs of functions | **Homework:** Day8 Equations Involving Distributive Property | **Homework:** WS:Day9 Mixture of Equations |

* **Algebra:** The branch of mathematics that deals with relationships between numbers, utilizing letters and other symbols to represent specific sets of numbers, or to describe a pattern of relationships between numbers.

• **Binomial Expression**: An algebraic expression with two unlike terms.

• **Capacity**: The greatest volume that a container can hold. • Circumference: The distance around a circle.

• **Coefficient**: A number multiplied by a variable.

• **Constant Term**: A quantity that does not change its value.

• **Expression**: A mathematical phrase involving at least one variable and sometimes numbers and operation symbols.

• **Factor**: When two or more integers are multiplied, each integer is a factor of the product. "To factor" means to write the number or term as a product of its factors.

• **Integer**: The set of numbers ...,–3,–2,–1,0,1,2,3,…

• **Irrational Number**: A number whose decimal form is nonterminating and nonrepeating. Irrational numbers cannot be written in the form a/b, where a and b are integers (b cannot be zero). So all numbers that are not rational are irrational.

• **Monomial Expression**: An algebraic expression with one term.

• **Perimeter**: The sum of the lengths of the sides of a polygon.

* **Rational Number**: A number expressible in the form a/b or – a/b for some fraction a/b. The rational numbers include the integers.

• **Standard Form of a Polynomial**: To express a polynomial by putting the terms in descending exponent order.

• **Term:** A number, a variable, or a product of numbers and variables.

• **Trinomial**: An algebraic expression with three unlike terms.

• **Variable:** A letter or symbol used to represent a number.

• **Volume**: The amount of space occupied by an object.

• **Whole numbers**: The numbers 0, 1, 2, 3, ….